



IFWO

## RAW SEQUENCE LISTING

DATE: 07/21/2004

PATENT APPLICATION: US/10/786,774

TIME: 09:27:25

Input Set : A:\08550~1.txt

Output Set: N:\CRF4\07212004\J786774.raw

3 <110> APPLICANT: Holoshitz, Joseph  
 4     Ling, Song  
 6 <120> TITLE OF INVENTION: Methods and Compositions for the Treatment of Diseases  
 Associated  
 7     with Signal Transduction Aberrations  
 9 <130> FILE REFERENCE: UM-08550  
 11 <140> CURRENT APPLICATION NUMBER: 10/786,774  
 C--> 12 <141> CURRENT FILING DATE: 2004-02-25  
 14 <160> NUMBER OF SEQ ID NOS: 36  
 16 <170> SOFTWARE: PatentIn version 3.2  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 5  
 20 <212> TYPE: PRT  
 21 <213> ORGANISM: Artificial Sequence  
 23 <220> FEATURE:  
 24 <223> OTHER INFORMATION: Synthetic  
 26 <400> SEQUENCE: 1  
 28 Gln Lys Arg Ala Ala  
 29 1                   5  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 5  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Synthetic  
 40 <400> SEQUENCE: 2  
 42 Gln Arg Arg Ala Ala  
 43 1                   5  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 5  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Escherichia coli  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: MISC\_FEATURE  
 54 <222> LOCATION: (2)..(2)  
 55 <223> OTHER INFORMATION: The residue at this position can be lysine or arginine.  
 57 <220> FEATURE:  
 58 <221> NAME/KEY: MISC\_FEATURE  
 59 <222> LOCATION: (3)..(4)  
 60 <223> OTHER INFORMATION: The residues at these positions can be any amino acid.  
 62 <400> SEQUENCE: 3  
 W--> 64 Gln Xaa Xaa Xaa Ala  
 65 1                   5  
 68 <210> SEQ ID NO: 4

(pg. 6)

**ENTERED**

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69 <211> LENGTH: 5  
 70 <212> TYPE: PRT  
 71 <213> ORGANISM: Escherichia coli  
 74 <220> FEATURE:  
 75 <221> NAME/KEY: MISC\_FEATURE  
 76 <222> LOCATION: (3)..(4)  
 77 <223> OTHER INFORMATION: The residues at these positions can be any amino acid.  
 79 <400> SEQUENCE: 4

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82 1 5  
 85 <210> SEQ ID NO: 5  
 86 <211> LENGTH: 15  
 87 <212> TYPE: PRT  
 88 <213> ORGANISM: Artificial Sequence  
 90 <220> FEATURE:  
 91 <223> OTHER INFORMATION: Synthetic  
 93 <400> SEQUENCE: 5  
 95 Lys Asp Leu Leu Glu Gln Lys Arg Ala Ala Val Asp Thr Tyr Cys  
 96 1 5 10 15  
 99 <210> SEQ ID NO: 6  
 100 <211> LENGTH: 14  
 101 <212> TYPE: PRT  
 102 <213> ORGANISM: Artificial Sequence  
 104 <220> FEATURE:  
 105 <223> OTHER INFORMATION: Synthetic  
 107 <400> SEQUENCE: 6  
 109 Lys Asp Leu Leu Glu Gln Lys Arg Ala Ala Val Asp Thr Tyr  
 110 1 5 10  
 113 <210> SEQ ID NO: 7  
 114 <211> LENGTH: 15  
 115 <212> TYPE: PRT  
 116 <213> ORGANISM: Artificial Sequence  
 118 <220> FEATURE:  
 119 <223> OTHER INFORMATION: Synthetic  
 121 <400> SEQUENCE: 7  
 123 Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val Asp Thr Tyr Cys  
 124 1 5 10 15  
 127 <210> SEQ ID NO: 8  
 128 <211> LENGTH: 14  
 129 <212> TYPE: PRT  
 130 <213> ORGANISM: Artificial Sequence  
 132 <220> FEATURE:  
 133 <223> OTHER INFORMATION: Synthetic  
 135 <400> SEQUENCE: 8  
 137 Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val Asp Thr Tyr  
 138 1 5 10  
 141 <210> SEQ ID NO: 9  
 142 <211> LENGTH: 15  
 143 <212> TYPE: PRT

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144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Synthetic
149 <400> SEQUENCE: 9
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152 1           5           10           15
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157 <212> TYPE: PRT
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Synthetic
163 <400> SEQUENCE: 10
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166 1           5           10           15
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 5
171 <212> TYPE: PRT
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Synthetic
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180 1           5
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186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Synthetic
191 <400> SEQUENCE: 12
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194 1           5
197 <210> SEQ ID NO: 13
198 <211> LENGTH: 5
199 <212> TYPE: PRT
200 <213> ORGANISM: Escherichia coli
203 <220> FEATURE:
204 <221> NAME/KEY: MISC_FEATURE
205 <222> LOCATION: (2)..(2)
206 <223> OTHER INFORMATION: The residue at this position is dLys.
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210 Gln Lys Arg Ala Ala
211 1           5
214 <210> SEQ ID NO: 14
215 <211> LENGTH: 5
216 <212> TYPE: PRT
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:

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220 &lt;223&gt; OTHER INFORMATION: Synthetic

222 &lt;400&gt; SEQUENCE: 14

224 Gln Lys Arg Ala Glu

225 1 5

228 &lt;210&gt; SEQ ID NO: 15

229 &lt;211&gt; LENGTH: 5

230 &lt;212&gt; TYPE: PRT

231 &lt;213&gt; ORGANISM: Artificial Sequence

233 &lt;220&gt; FEATURE:

234 &lt;223&gt; OTHER INFORMATION: Synthetic

236 &lt;400&gt; SEQUENCE: 15

238 Gln Glu Cys Leu Ala

239 1 5

242 &lt;210&gt; SEQ ID NO: 16

243 &lt;211&gt; LENGTH: 5

244 &lt;212&gt; TYPE: PRT

245 &lt;213&gt; ORGANISM: Artificial Sequence

247 &lt;220&gt; FEATURE:

248 &lt;223&gt; OTHER INFORMATION: Synthetic

250 &lt;400&gt; SEQUENCE: 16

252 Asp Lys Cys Leu Ala

253 1 5

256 &lt;210&gt; SEQ ID NO: 17

257 &lt;211&gt; LENGTH: 169

258 &lt;212&gt; TYPE: PRT

259 &lt;213&gt; ORGANISM: Artificial Sequence

261 &lt;220&gt; FEATURE:

262 &lt;223&gt; OTHER INFORMATION: Synthetic

264 &lt;400&gt; SEQUENCE: 17

266 Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu

267 1 5 10 15

270 Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp

271 20 25 30

274 Asn Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys

275 35 40 45

278 Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu

279 50 55 60

282 Leu Met Thr Leu Ala Thr Trp Val Gly Gly Asn Leu Glu Asp His Lys

283 65 70 75 80

286 Asp Leu Leu Glu Gln Lys Arg Ala Ala Val Asp Thr Tyr Cys Val Asp

287 85 90 95

290 Pro Ile Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly

291 100 105 110

294 Leu Lys Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe

295 115 120 125

298 Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile

299 130 135 140

302 Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr

303 145 150 155 160

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Input Set : A:\08550~1.txt

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306 Leu Pro Ala Trp Ala Arg Val Ile Asn

307 165

310 &lt;210&gt; SEQ ID NO: 18

311 &lt;211&gt; LENGTH: 169

312 &lt;212&gt; TYPE: PRT

313 &lt;213&gt; ORGANISM: Artificial Sequence

315 &lt;220&gt; FEATURE:

316 &lt;223&gt; OTHER INFORMATION: Synthetic

318 &lt;400&gt; SEQUENCE: 18

320 Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu

321 1 5 10 15

324 Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp

325 20 25 30

328 Asn Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys

329 35 40 45

332 Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu

333 50 55 60

336 Leu Met Thr Leu Ala Thr Trp Val Gly Gly Asn Leu Glu Asp His Lys

337 65 70 75 80

340 Asp Ile Leu Glu Asp Glu Arg Ala Ala Val Asp Thr Tyr Cys Val Asp

341 85 90 95

344 Pro Ile Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly

345 100 105 110

348 Leu Lys Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe

349 115 120 125

352 Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile

353 130 135 140

356 Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr

357 145 150 155 160

360 Leu Pro Ala Trp Ala Arg Val Ile Asn

361 165

364 &lt;210&gt; SEQ ID NO: 19

365 &lt;211&gt; LENGTH: 54

366 &lt;212&gt; TYPE: DNA

367 &lt;213&gt; ORGANISM: Artificial Sequence

369 &lt;220&gt; FEATURE:

370 &lt;223&gt; OTHER INFORMATION: Synthetic

372 &lt;400&gt; SEQUENCE: 19

373 cacaaggacc tcttgagca gaagcgggcc gcggtggaca cctactgcgt agat

54

376 &lt;210&gt; SEQ ID NO: 20

377 &lt;211&gt; LENGTH: 54

378 &lt;212&gt; TYPE: DNA

379 &lt;213&gt; ORGANISM: Artificial Sequence

381 &lt;220&gt; FEATURE:

382 &lt;223&gt; OTHER INFORMATION: Synthetic

384 &lt;400&gt; SEQUENCE: 20

385 cacaaggaca tcttgaaga cgagcgggcc gcggtggaca cctactgcgt agat

54

388 &lt;210&gt; SEQ ID NO: 21

389 &lt;211&gt; LENGTH: 5

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/786,774

DATE: 07/21/2004  
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Input Set : A:\08550~1.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 2,3,4 ✓  
Seq#:4; Xaa Pos. 3,4 ✓  
Seq#:21; Xaa Pos. 2,3,4  
Seq#:25; Xaa Pos. 3,4  
Seq#:26; Xaa Pos. 3,4  
Seq#:27; Xaa Pos. 3,4  
Seq#:30; Xaa Pos. 1,7  
Seq#:31; Xaa Pos. 1,7  
Seq#:32; Xaa Pos. 1,7  
Seq#:33; Xaa Pos. 1,7  
Seq#:34; Xaa Pos. 1,7  
Seq#:35; Xaa Pos. 1,7  
Seq#:36; Xaa Pos. 1,7

## VERIFICATION SUMMARY

DATE: 07/21/2004

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Input Set : A:\08550~1.txt

Output Set: N:\CRF4\07212004\J786774.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0